

Supplemental Preliminary Amendment

Applicant: Ralf Brederlow et al.

Serial No.: 10/562,458

(Priority Application No. DE 103 29 655.7)

(International Application No. PCT/DE2004/001374)

Filed: December 29, 2005

(Priority Date 01 July 2003)

(International Filing Date 30 June 2004)

Docket No. I432.128.101/P31912

Title: ELECTRONIC COMPONENT WITH ID TAGS

IN THE CLAIMS

Please cancel claim 1.

Please add claims 12-31.

1. (Cancelled)

2.-11. (Cancelled)

12. (New) An electronic component operable with an AC voltage, the electric component comprising:

at least one input;

at least one output; and

a pair of functionally identical electronic sub-components;

wherein the at least one input of the electronic component is connected to a respective input of the two functionally identical electronic sub-components;

wherein the at least one output of the electronic component is connected to a respective output of the two functionally identical electronic sub-components; and

wherein the electronic component is configured such that at the at least one output only one output signal of a first sub-component of the pair of functionally identical electronic sub-components can be picked up during a first half-wave of an AC voltage, whereas only one output signal of the second sub-component of the pair of functionally identical electronic sub-components can be picked up during a second half-wave of the AC voltage.

13. (New) The electronic component of claim 12 further comprising a plurality of pairs of functionally identical electronic sub-components.

14. (New) The electronic component of claim 12, wherein at least one pair of functionally identical electronic sub-components comprises one of logic-gates, inverters and flip-flops.

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15. (New) The electronic component of claim 12, wherein the electronic component comprises a coil.
16. (New) The electronic component of claim 12 further comprising a voltage limiter, which limits the AC voltage lying across an electronic sub-component of the pair of functionally identical electronic sub-components.
17. (New) The electronic component of claim 12, wherein the electronic sub-components of a pair of functionally identical electronic sub-components comprises a switch.
18. (New) The electronic component of claim 12, wherein the electronic component is configured within an ID tag.
19. (New) The electronic component of claim 18, wherein the ID tag comprises a memory for storing information.
20. (New) The electronic component of claim 18, wherein the ID tag comprises an encoder for coding information.
21. (New) The electronic component of claim 20, wherein the encoder is configured such that it can be used for time-coding and pulse-coding.
22. (New) An electronic arrangement comprising:
a read device;
an ID tag with an electric component comprising:
a first sub-component with an input and an output;
a second sub-component with an input and an output;

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an AC signal received by the inputs of the first and second sub-components, the AC signal having a first half-wave and a second half-wave;
means for providing an output from only the first sub-component during the first half-wave; and
means for providing an output from only the second sub-component during the second half-wave;
wherein the ID tag and read device are configured to communicate with each other without contact.

23. (New) The electronic arrangement of claim 22, wherein the first and second sub-components are functionally substantially similar.

24. (New) The electronic arrangement of claim 23, wherein the electronic component further comprises a plurality of pairs of functionally identical electronic sub-components.

25. (New) The electronic arrangement of claim 23, wherein at least one pair of functionally identical electronic sub-components comprises one of logic-gates, inverters and flip-flops.

26. (New) The electronic arrangement of claim 23, wherein the electronic component comprises a coil.

27. (New) The electronic arrangement of claim 23, wherein the electronic component further comprises a voltage limiter, which limits the AC voltage lying across an electronic sub-component of the pair of functionally identical electronic sub-components.

28. (New) The electronic arrangement of claim 23, wherein the electronic sub-component comprises a switch.

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29. (New) The electronic arrangement of claim 23, wherein the ID tag comprises a memory for storing information.
30. (New) The electronic arrangement of claim 29, wherein the ID tag comprises an encoder for coding information.
31. (New) The electronic arrangement of claim 30, wherein the encoder is configured such that it can be used for time-coding and pulse-coding.